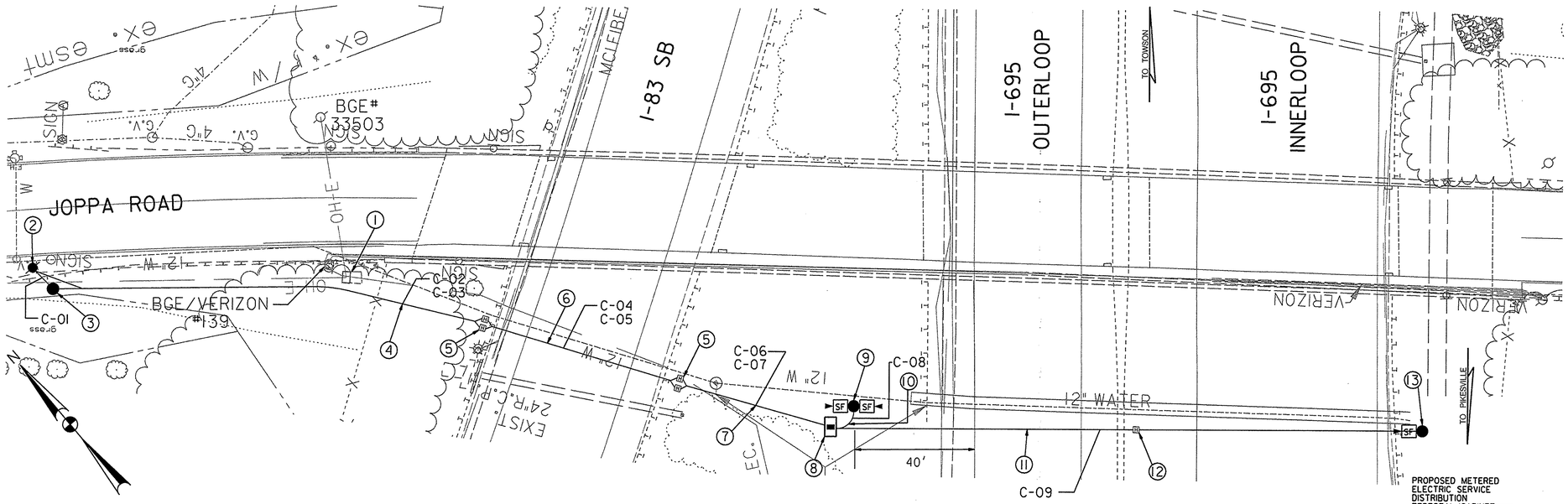


CONDUIT SCHEDULE		
CONDUIT CODE	TYPE•	LENGTH (LF)
C-01	4" TR	20
C-02	3" TR	160
C-03	3" TR	140
C-04	4" DB-HDPE	90
C-05	4" DB-HDPE	90
C-06	3" TR	70
C-07	3" TR	70
C-08	3" TR	20
C-09	4" DB-HDPE	200

• ALL CONDUIT SHALL BE SCHEDULE 80 RIGID PVC UNLESS OTHERWISE NOTED IN TABLE

TR - TRENCHED CONDUIT
DB - DIRECTIONAL BORE
HDPE - HIGH DENSITY POLLY-ETHALINE

NOTES

1. REMOVE AND DISPOSE OF EXISTING DETECTOR CABINET AND EQUIPMENT.

2. PROPOSED BGE POWER SERVICE AND VERIZON COMMUNICATION SERVICE SHALL BE PROVIDED FROM PROPOSED/RELOCATED UTILITY POLE LOCATED ALONG THE WEST SIDE OF JOPPA ROAD NEXT TO THE RECONSTRUCTED BRIDGE STRUCTURE.

3 INSTALL METERED SERVICE PEDESTAL IN ACCORDANCE WITH DETAILS ON DRAWING ITS-08, APPROXIMATELY 10 FT FROM UTILITY POLE. THE METERED SERVICE PEDESTAL SHALL BE POSITIONED SO THAT A BGE TECHNICIAN CAN ACCESS THE METER FROM THE JOPPA ROAD SIDE OF THE PEDESTAL. INSTALL ONE 4" PVC SCHEDULE 80 CONDUIT BETWEEN UTILITY POLE AND METERED SERVICE PEDESTAL. INSTALL CONDUIT ELBOW AT BASE OF UTILITY POLE AND EXTEND CONDUIT TO 2 FT ABOVE GRADE AT BASE OF UTILITY POLE. PROVIDE PULL-CORD IN CONDUIT FOR BGE SERVICE TECHNICIAN. BGE WILL INSTALL RISER ON UTILITY POLE.

4. INSTALL ONE 3" PVC SCHEDULE 80 CONDUIT BETWEEN THE METERED SERVICE POLE AND THE PROPOSED HANDHOLE ADJACENT TO THE I-83 RAMP (SEE NOTE 5) FOR ELECTRICAL SERVICE. INSTALL ONE 3" PVC SCHEDULE 80 CONDUIT BETWEEN THE UTILITY POLE AND THE PROPOSED COMMUNICATIONS HANDHOLE ADJACENT TO THE I-83 RAMP FOR COMMUNICATION SERVICE, IN COMMON TRENCH WITH ELECTRICAL CONDUIT. INSTALL 90-DEGREE ELBOW AND EXTEND COMMUNICATION CONDUIT TO 2 FT ABOVE GRADE AT BASE OF UTILITY POLE. INSTALL 5 PAIR, 22 AWG SHIELDED COPPER CABLE IN COMMUNICATIONS CONDUIT, AND THREE #2 AND ONE #4 GRD WIRES IN ELECTRICAL CONDUIT.

5. INSTALL ONE TYPICAL STANDARD COMMUNICATIONS HANDHOLE AND ONE TYPICAL STANDARD ELECTRICAL HANDHOLE WITH UNDERDRAINS AS DETAILED ON DRAWING ITS-05.

6. DIRECTIONALLY BORE ONE 4" SDR-13.5 HDPE CONDUIT FOR POWER AND ONE 4" SDR-13.5 HDPE CONDUIT FOR COMMUNICATION UNDER I-83 SOUTHBOUND RAMP. INSTALL 5 PAIR, 22 AWG SHIELDED COPPER CABLE IN COMMUNICATIONS CONDUIT, AND THREE #2 AND ONE #4 GRD WIRES IN ELECTRICAL CONDUIT.

7. INSTALL ONE 3" PVC SCHEDULE 80 CONDUIT FOR ELECTRICAL SERVICE AND ONE 3" PVC SCHEDULE 80 CONDUIT FOR COMMUNICATION SERVICE IN COMMON TRENCH. INSTALL 5 PAIR, 22 AWG SHIELDED COPPER CABLE IN COMMUNICATIONS CONDUIT, AND THREE #2 AND ONE #4 GRD WIRES IN ELECTRICAL CONDUIT. EXTEND COMMUNICATION CONDUIT TO AVAILABLE CONDUIT BEND IN PROPOSED EQUIPMENT CABINET FOUNDATION, AND EXTEND POWER CONDUIT TO DISCONNECT SWITCH MOUNTED ON SIDE OF PROPOSED CABINET.

8. INSTALL BASE MOUNTED TYPE 332 CABINET AND DETECTOR EQUIPMENT, AS DETAILED ON DRAWING ITS-04.

9. INSTALL 30 FT STRAIN POLE WITH TWO SIDE-FIRE DETECTORS ON NEW FOUNDATION. CONSTRUCT POLE FOUNDATION WITH ONE 3" CONDUIT BEND. STRAIN POLE AND FOUNDATION SHALL BE CONSTRUCTED IN ACCORDANCE WITH SHA STANDARDS FOR 30 FT SIGNAL STRAIN POLE. SEE DETAILS ON DRAWING ITS-07 FOR LOCATIONS OF BLIND HALF COUPLINGS AND ACCESS HOLES.

10. INSTALL ON 3" PVC SCHEDULE 80 CONDUIT BETWEEN TYPE 332 CABINET AND DETECTOR POLE FOUNDATION, TRENCHED. INSTALL DETECTOR LEAD-IN CABLE IN CONDUIT AND EXTEND INSIDE POLE TO DETECTORS.

11. DIRECTIONALLY BORE ONE 4" CONDUIT UNDER I-695 WITH DETECTOR LEAD-IN CABLE.

12. ONE CONTINUOUS BORE IS PREFERRED, HOWEVER CONTRACTOR MAY DIG A BORING RECEIVING PIT IN INNERLOOP MEDIAN SHOULDER, AND INSTALL HANDHOLE, AT NO ADDITIONAL COST TO THE ADMINISTRATION.

13. INSTALL 20 FT DETECTOR PEDESTAL POLE WITH ONE SIDE-FIRE DETECTOR ON NEW FOUNDATION, AS DETAILED ON DRAWING ITS-07. CONSTRUCT POLE FOUNDATION WITH ONE 4" CONDUIT BEND.

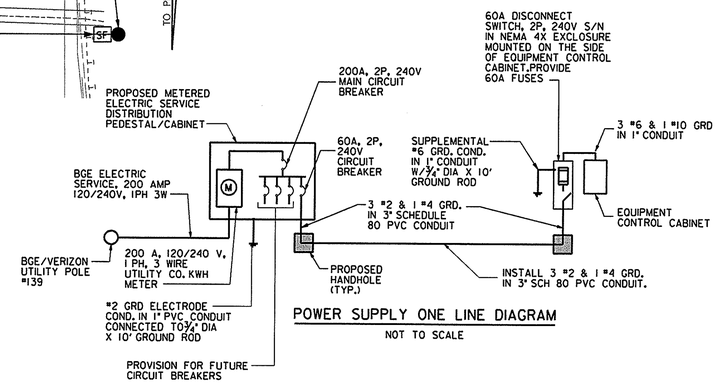
SIDE-FIRE DETECTOR GENERAL NOTES

1. ALL EXISTING DETECTOR EQUIPMENT SHALL BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.

2. BGE/VERIZON POLE #139 SHALL BE REMOVED/ RELOCATED TO NEW LOCATION (SEE CONSTRUCTION NOTE 2) TO FACILITATE BRIDGE RECONSTRUCTION WORK.

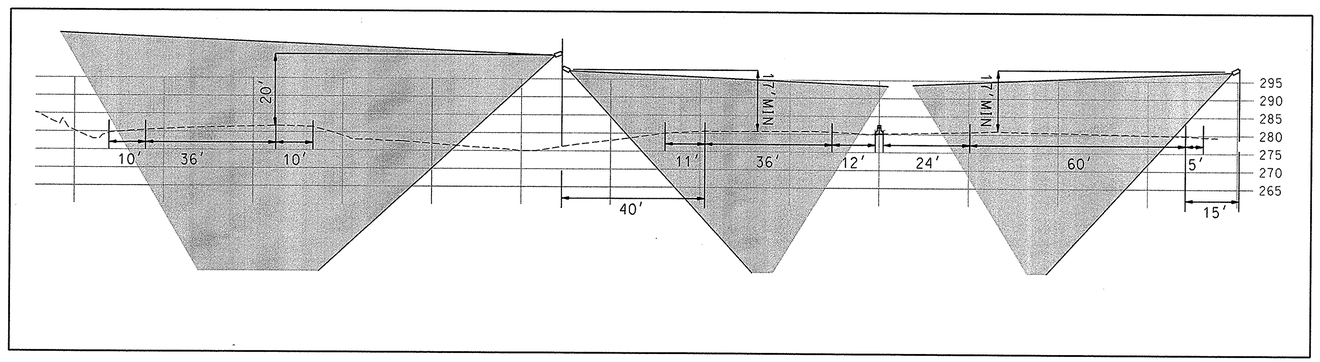
3. THE DETECTOR POLE ON THE NORTH SIDE OF I-695 IS A TYPICAL STANDARD 30 FT SIGNAL STRAIN POLE. CONTRACTOR SHALL CONSTRUCT/MANUFACTURE POLE AND FOUNDATION IN ACCORDANCE WITH MARYLAND STANDARDS. CONTRACTOR SHALL MANUFACTURE 30 FT POLE WITH HANDHOLE AND BLIND HALF COUPLINGS AS DIMENSIONED IN DETECTOR POLE DETAILS ON DRAWING ITS-07.

4. THE DETECTOR POLE ON THE SOUTH SIDE OF I-695 IS A TYPICAL 20 FT DETECTOR POLE, AS DETAILED ON DRAWING ITS-07.



POWER SUPPLY ONE LINE DIAGRAM

NOT TO SCALE



MAINTENANCE OF TRAFFIC NOTES

1. ALL CONSTRUCTION WORK SHALL BE PERFORMED BEHIND EXISTING GUARDRAIL. TEMPORARY MAINTENANCE OF TRAFFIC IS NOT REQUIRED TO COMPLETE TRENCHING AND FOUNDATION WORK.

2. IF CONTRACTOR DEEMS A HANDHOLE IN INNERLOOP NECESSARY, CONTRACTOR SHALL IMPLEMENT A TYPICAL SHOULDER CLOSURE IN ACCORDANCE WITH STANDARD NO. MD 104.56-01, BETWEEN 9AM AND 3PM.

CONSULTANT

WHITNEY BAILEY COX MAGNANI
CONSULTING ENGINEERS
849 FAIRMOUNT AVENUE
SUITE 100
BALTIMORE, MD 21286
(410) 512-4500

REVISIONS

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
SIDE-FIRE DETECTOR
I-695 AT I-83 SOUTHBOUND AND
I-695 AT THORNTON ROAD

DWG. NO. ITS-02

DRAWN BY:	MJA	F.A.P. NO.	SEE TITLE SHEET	PLAN SHEET NO.:	SHEET NO. ____ OF ____
CHK. BY:	MJA	S.H.A. NO.	BAI305172		
SCALE:	1" = 20'	COUNTY	BALTIMORE		

FILE: P:\1997\9702501O\Traffic\dgn\its02belt.dgn
DATE: 20-Mar-03 15:54

9/03 4:06:14 PM D:\LOCAL\FULL\BOND\92783.000970250l0_N_its02belt.000_mallen.000